US ERA ARCHIVE DOCUMENT

## EEE BRANCH REVIEW

DATE: IN 2/1	1/7 <b>08UT</b> 2/25	/78 IN_	OUT_	··	IN	_our
FIS	H & WILDLIFE	EWIR	ONMENIAL C	HEMISTRY	EFF	ICACY
•				,		
				w.		
FILE OR REG.	NO	10182-	-000RI	<u>`.</u>		
PETITION OR E	XP. PERMIT N	o		<u> </u>		
DATE DIV. REC	EIVED	-				
DATE OF SUBMI	SSION					
DATE SUBMISSI	ON ACCEPTED	·		فعميت معافي ومروع والمتاريخ		
TYPE PRODUCTS	S(S): I, D,	н, г,	N, R, S	Ins	secticid	е
DATA ACCESSIO						•
PRODUCT MGR.	NO	Mitch	ell (17)			
PRODUCT NAME	(S)	Perme	thrin Tec	hnical		
COMPANY NAME						
SUBMISSION P			tration o	f Techni	cal	
	ODIAH MITON	Dormo	+hrin			•
CHEMICAL & F	ORIDIATION _	rerme	CHI III		<del></del>	
Active:	(3-phenoxyr dichloroet	ohenyl) chenyl)-	methyl (±	-) - cis -hylcyclo		-(2,2- carboxyalte 91.0%
Inerts .				• • •		100.0%

Registration: Permethrin Technical

100.0 Pesticidal Use

For the formulation of insecticides only.

- 100.1 Application Methods/Directions
  Not Applicable
- 101.0 Chemical and Physical Properties
- 101.1 Chemical Name

(3-Phenoxyphenyl)methyl (+)-(15, trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxy-late

101.2 Common Name

Permethrin: PP557

101.3 Structural Formula

Note: Cis and trans forms of the above are used (approximately 35% Cis form)

101.4 Molecular Weight: C<sub>21</sub>H<sub>20</sub>Ci<sub>2</sub>O<sub>3</sub>

391.28

- 101.5 Physical State
  Liquid, colorless, odorless
- 101.6 Solubility

<0.1 ppm in water, misible with or soluble in most organic solvents.

102.0 Behavior in the Environment

NA for registration of technical material for formulation use only.

103.0	Toxicological Properties								
103.1	Acute Toxicity								
103.1.1	Mammalian								
	See Review by Tho	mas O'Brien,	2/14/77						
103.1.2	Bird Acute Toxicity LD <sub>50</sub>								
	Mallard	10,327 mg/k 9.868 mg/k	g females	EA <sup>1</sup> EA					
	Pheasant	13,740 mg/l 15,545 mg/l	g males	EA					
	Starling Japanese Quail	42,706 mg/l 15,500 mg/l	<b>r</b> g	EA EA					
103.1.3	Fish Acute Toxici	ty LC <sub>50</sub> 96-1	nr.						
	Channel Catfish Coho Salmon Atlantic Salmon Fathead Minnow	5.4 17.0 1.5 3.0	ppb ppb ppb	EA EA EA					
103.1.4	Aquatic Invertebrate Toxicity LC <sub>50</sub> (48-hr)								
	Daphnia Magna Daphnia Magna Brown Shrimp Fiddler Crab	1.8 pp	b (48hr) b (48 hr) b (48 hr)	EA FP EA					
103.2	Subacute								
	Ring-necked Phea Mallard Duck Japanese Quail	23	23,000 ppm EA 23,000 ppm EA 23,000 ppm EA						
103.4	Field Toxicity								
	See attached test (ID # ES-BB)								
	Footnotes								
	1 <sub>EA</sub> = Technical material (each active)								
	2 <sub>EA</sub> = Formulated product								

104.0 Hazard Assessment

104.1 Discussion

104.1.1 Likelihood of Exposure to Non-traget Organisms

N.A. - Industrial use only

104.1.2 Endangered Species Considerations

N.A.

104.1.3 Adequacy of Toxicity Data

The registrant has submitted the required basic studies. These data are adequate support for registration of the technical product.

105.0 Classification

Manufacturing Use

107.0 Conclusions

107.4 Data Adequacy

The six basic studies required to support registration have been reviewed and have been determined acceptable by the Environemntal Safety Section.

107.7 Recommendations

The registrant has fulfilled all environmental safety section data requirements for registration of Permethrin Technical for formulating use only.

Richard Balcomb

February 25, 1978

Environmental Safety Section

EEEB-RD WH567